

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/028320A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F16K11/22 F25B49/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16K F25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 499 691 C (SCHIFF UND MASCHB AKT GES DEUT) 12 June 1930 (1930-06-12) figure 1	1-11
X	US 2 383 861 A (HOPKINS DAVID W) 28 August 1945 (1945-08-28) figures 1-5	1-11
X	US 6 216 737 B1 (GEERS WILLIAM ET AL) 17 April 2001 (2001-04-17) abstract; figures 1-4	1-11
Y		13-17, 20
X	WO 02/086397 A (ARITA KAZUHEI ; OGAI MASATO (JP); YAZAKI CORP (JP); TONGU SHINJI (JP);) 31 October 2002 (2002-10-31) abstract; figure 6	12, 18, 19
Y		13-17, 20
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

17 December 2004

Date of mailing of the international search report

14/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Bilo, E

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A	US 4 749 004 A (PEASH DOUGLAS E) 7 June 1988 (1988-06-07) figures 1,2 -----	1-20
A	DE 32 04 288 A (VAILLANT JOH GMBH & CO) 11 August 1983 (1983-08-11) figure 1 -----	1-20
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A	DE 28 03 818 A (NOCADO ARMATURENFAB GMBH & CO) 2 August 1979 (1979-08-02) figures 1-3 -----	1,9

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